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ABSTRACT

2           A packer fluid is provided for use with a wellbore fluid in an annulus or  
3   casing bore, having an aqueous portion which contains additives for preventing  
4   corrosion, microbiological activity, salt and scale deposition, and an environmentally-  
5   acceptable capping fluid which resides at a top of the wellbore to act as freeze  
6   protection and as thermal insulation in a the frost penetration layer. The additives in  
7   the packer fluid are particularly selected to exist in the aqueous additive fluid and in  
8   the wellbore fluid and to be substantially immiscible with the capping fluid and  
9   thereby prevent significant migration of the additives into the capping fluid which  
10   would compromise its environmental acceptability.